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- External threats that come from the increasing sophistication of cybercrime, state-sponsored espionage, more activism moving online, and attacks on systems that have physical impact in the real world
- Regulatory threats that come as regulators call for greater transparency about incidents and security preparedness, while increasing requirements for data privacy
- Internal threats that come as technology introduces new benefits at a relentless pace and the business adopts them without understanding the security risks.

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EXPERVALIBLEATS

- Cyber criminality increases as Malspace matures
 The sophistication and scale of the global industry that has evolved to commit cybercrime, espionage and other malevolent activity will grow and develop.
- The cyber arms race leads to a cyber cold war
 Nations developing more sophisticated ways to attack via cyberspace will get better at it, those who haven't will start, and organisations will suffer collateral damage. Targets for espionage will include anyone whose intellectual property can turn a profit or confer an advantage.
- 3. More causes come online; activists get more active Anyone not already using the Internet to advance their cause will start: customer affinity groups, community associations, terrorists, dictators, political parties, urban gangs – the list is endless. Online organising will become easier and protest channels will be available to greater numbers.
- Cyberspace gets physical
 The increasing convergence of cyber and physical worlds will bring more attacks on physical systems, from attempts to turn out lights or climate control systems to disrupting manufacturing systems. Whether attacks are successful or not, credible publicised threats will cause disruption and panic.

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Magnifiers and Recommendations

External threat magnifiers include:

- · Mobile malware, especially targeting mobile banking
- Attacks on smartphones and internet telephony: eavesdropping on calls and meetings, tracking locations, stealing information
- Domain name abuse from new top level domains and non-latin domain names

External threat recommendations include:

- Ensure standard security measures are in place
- Develop cyber resilience by establishing a cyber security governance function, timely attack intelligence gathering and sharing, a resilience assessment and adjustment capacity and a comprehensive response plan
- Monitor the threats and share information

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REGULATORYTHREATS

- New requirements shine a light in dark corners, exposing weaknesses. Further movement toward increasingly transparent security disclosures will publicise weaknesses, making organisations more vulnerable to attack. Organisations forced to report security risks may have as much to fear from customers and business partners as they do from hackers and regulators.
- 2. A focus on privacy distracts from other security efforts New privacy requirements from consumers, business customers and regulators impose a heavy compliance burden. Organisations will need to decide whether to invest in the necessary security and legal controls, outsource to someone who can, or exit certain markets. They will also need to consider the message their actions send to their customers.

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Regulatory threat magnifiers include:

- Possible creation of cyber havens: countries providing data hosting without onerous regulations
- · Mandate to have real-time reporting, not just an audit snap-shot
- · Inadequate security with critical business partners
- Perception that the US monitors everything

Recommended actions include:

- Amend your data protection framework and information management procedures to reflect legislative changes.
- Review new requirements in detail so that, as much as possible, you
 can align privacy-related controls with other controls, decreasing
 overhead and increasing effectiveness.
- Join and participate in industry and other associations to assess and influence policy.

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- Cost pressures stifle critical investment;
 - An undervalued function can't keep up. Even organisations that are increasing security spend have a legacy of under-investment that can't be corrected overnight. But cyber criminals have been investing, and it will become easier and less expensive to buy criminal technology and services.
- 2. A clouded understanding leads to an outsourced mess Continued cost pressure will lead to a new form of digital divide: between organisations that understand the marriage between IT and information security – and everyone else. Leading organisations will appreciate the strategic value of channels, systems and information and will invest; the others will suffer competitive disadvantage and heightened risk of damaging incidents.
- 3. New technologies overwhelm
 - Organisations are unlikely to slow their adoption of new technology or decrease their participation in cyberspace. Along with business benefits come potential vulnerabilities and methods for attack, and organisations will continue to be hit. Organisations that don't understand their dependence on technology may have a nasty surprise if it leads them astray or suddenly goes offline.
- 4. The supply chain springs a leak as the insider threat comes from outside A modern organisation's data is spread across many parties, and more organisations will fall victim to incidents at suppliers. This will increase as organisations further digitise supply chains, outsource functions and rely on external advisors. 3D printers create three-dimensional products from digital blueprints — increasing the theft of intellectual property, the frequency of attacks and the amount of counterfeit product on the market.



Magnifiers and Recommendations

Internal threat magnifiers include:

- · Hidden security costs of seemingly attractive business initiatives
- · Artificial intelligence decision making used in automated business processes

Recommended actions include:

- Raising the game to help senior management understand the value of information security. Adopt information security governance to raise the game of the information security function and integrate with other risk and governance efforts within the organisation.
- Understand your organisation's risk appetite and ensure the value of continuous security investment meets the business need and is adequate and well spent.
- Take ownership of coordinating the contracting and provisioning of business relationships, including outsourcers, offshorers, supply chain and cloud providers.

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